

2. Disconnect the connector from the thermosensor and remove the thermosensor (**Figure 85**).
3. Reverse Steps 1 and 2 to install the thermosensor while noting the following:
 - a. Install a new sealing washer.
 - b. Tighten the oil thermosensor to 18 N•m (13 ft.-lb.).
 - c. After starting the engine, check for oil leaks.

SPEED SENSOR UNIT

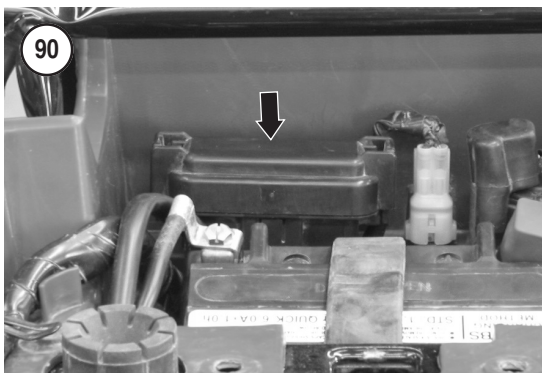
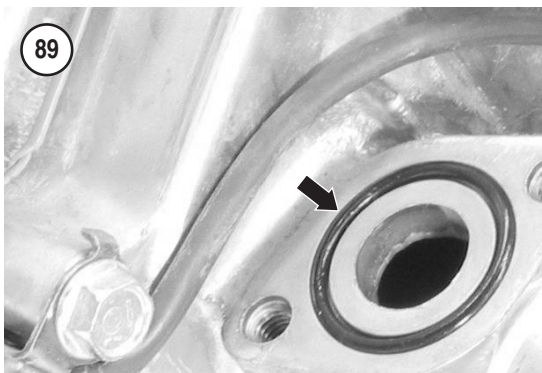
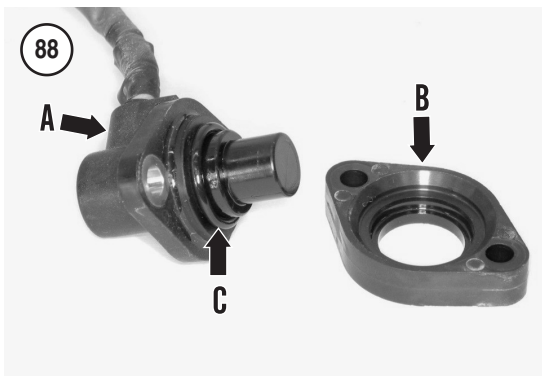
All FE and TE models, as well as FM and TM models equipped with a combination meter, are equipped with a speed sensor unit. The speed sensor unit is mounted in the rear crankcase cover (**Figure 87**).

Testing

Refer to *Combination Meter* in Chapter Two.

Removal/Installation

1. Remove the rear crankcase cover as described in Chapter Fifteen.
2. Disconnect the speed sensor electrical connector (C, **Figure 2**).
3. Remove the bolts, speed sensor unit (A, **Figure 88**) and insulator (B).
4. Replace the O-ring on the speed sensor (C, **Figure 88**) and crankcase cover (**Figure 89**) if it is leaking or damaged.
5. Installation is the reverse of the preceding removal steps while noting the following:
 - a. Lubricate the two O-rings with engine oil.
 - b. Tighten the mounting bolts securely.

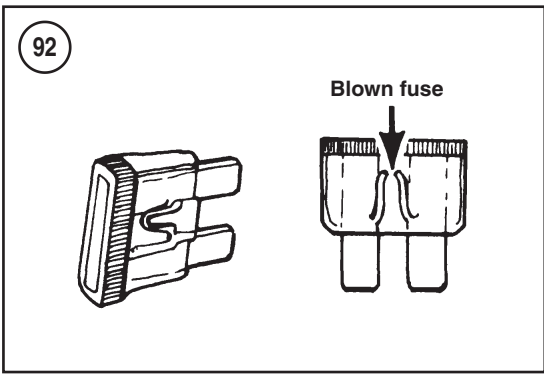


FUSES

Whenever the fuse blows, determine the reason for the failure before replacing the fuse. Usually, the trouble is a short circuit in the wiring, which may be caused by worn-through insulation or a disconnected wire touching ground.

All fuses are contained in the fuse box located next to the battery (**Figure 90**).

See **Table 5** for fuse ratings.



Removal/Installation

1. Remove the seat (Chapter Fifteen), then remove the lid above the battery.

NOTE

To remove the lid fasteners, rotate the screw counterclockwise fully, then pull out the fastener. When turned clockwise, the screw expands the fastener body to secure it in the hole.

2. Make sure the ignition switch is turned off.

CAUTION

If the fuse is replaced with the ignition switch turned on, an accidental short circuit could damage the electrical system.

3. Remove the fuse box cover. Remove the fuse (Figure 91). Replace the fuse if it is blown (Figure 92).

NOTE

The size and function of each fuse is labeled inside the fuse box cover (Figure 93).



NOTE

Always carry spare fuses.

4. Installation is the reverse of the preceding removal steps.

WIRING DIAGRAMS

Wiring diagrams for all models are located at the end of this manual.

Table 1 CHARGING SYSTEM SPECIFICATIONS

Alternator	
Capacity	0.245 kW at 5000 rpm
Stator coil resistance*	0.1-1.0 ohms
Regulator/rectifier	
Type	Three phase/full-wave rectification
Regulated voltage	Battery voltage-15.5 volts at 5000 rpm
*Perform tests at 68° F (20° C). Do not test if the engine or component is hot.	

Table 2 IGNITION SYSTEM PEAK VOLTAGE SPECIFICATIONS*

Ignition coil peak voltage	100 volts minimum
Ignition pulse generator peak voltage	0.7 volts minimum
*The Honda peak voltage adapter (part No. 07HGJ-0020100) and a digital multimeter with an impedance of 10M ohms/DVC minimum are required.	

Table 3 STARTER SERVICE SPECIFICATIONS

	New mm (in.)	Service limit mm (in.)
Brush length	12.5 (0.49)	9.0 (0.35)

Table 4 REPLACEMENT BULBS

	Voltage-wattage
Headlight	12V-30W
Neutral indicator	12V-1.7W
Oil light indicator	12V-1.7W
Reverse indicator	12V-1.7W
Taillight	12V-5W

Table 5 FUSES

	Fuse rating
Main fuse	30 amp
Sub-fuses located in fuse box	
Accessories	10 amp
Fan motor/horn	15 amp
Ignition	10 amp
Lights	15 amp

Table 6 ELECTRICAL SYSTEM TORQUE SPECIFICATIONS

	N•m	in.-lb.	ft.-lb.
Angle sensor (FE/TE)	6	53	—
Gear position switch	12	106	—
Ignition pulse generator Allen bolts	6	53	—
Oil thermosensor	18	—	13
Recoil pulley flange bolt (rotor bolt)	108	—	80
Reverse shift switch bolt	13	115	—
Starter one-way clutch Allen bolts	23	—	17
Stator Allen bolts	10	88	—
Timing hole cap	10	88	—

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